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STEM Advisory Council Budget Year 2 (FY 2014)

Iowa Governor's STEM Advisory Council, FY 2014			
1. Regional STEM Network	a. Regional STEM Hubs *(Hubs cost-match manager salaries)*	6 @ $70,710 = $424,260	**$3,568,128**
	b. Scale-up programming *(Non-state cost-share required year 2)*	6 @ $523,978 = $3,143,868	
2. Statewide STEM Responsibilities	a. Public Awareness ……..(matched by private sector)……. [Exec. Order: "programming designed to elevate public awareness of the opportunities…"]	$150,000	**$ 1,144,309**
	b. Conferences, exhibits, forums, etc…….	$83,000	
	c. Nontraditional STEM Tchr recruitment (Intern-licensure)……. [Exec. Order: " identify, recruit, prepare, and support the best mathematics and science teachers"]	$80,000	
	d. Real World Externships …… (committed cost-share of $1.1M NSF grant thru 2014)	$20,000	
	e. Statewide STEM monitoring …… [Exec. Order: "The initiative shall evaluate the effectiveness of programming to document best practices."]	$80,000	
	f. Iowa Testing…….. ……	$80,000	
	g. Equella (Dept. of Ed.-owned platform for webportal) ……	(no charge)	
	h. STEM Schools/Classrooms (cost-shared rfp)…….	$151,309	
	i. Statewide IT Academy (rfp)……	$500,000	
3. Operations arm at IMSEP	a. Program arm staff – director; Asst. Director/development; financial/program manager; communications; ½ time secretary; student staff ……	$477,563	**$487,563**
	b. Office supplies, equipment……	$10,000	
	Total STEM State appropriation 2014 =		$5,200,000

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EXPLANATIONS

1.a. **Regional STEM Hubs** are funded at $70,710, an increase of $6,510 over last year. The increase enables salary increases and an increase to the travel budget for each manager from $1,700 to $5,000. This fund covers the manager salary (cost shared at 50% by Hubs) and benefits, administrative support staff, materials, supplies and travel.
1.b. **Scale-Up Programming** at $523,978 per region is increased by $72,570 over last year. The fund drives the expansion of nine selected programs to an average of about 150 educators and 17,000 youth participants per region.*

2.a. **Public Awareness funding** at $150,000, an increase of $100,000 over last year. It is to be matched by the public relations firm to be named in summer 2013.
2.b. **Conferences, exhibits, forums, etc.** at $83,000 is held level to last year. This fund drives Council summits, meetings, and forums as well as exhibits and presence at pertinent events.
2.c. **Nontraditional STEM Tchr recruitment** (Intern-licensure) at $80,000 is the remainder of a $363,210 fund last year that supported a program called *Iowa Teach Math & Science*. This reduced fund supports 8 intern license scholars at six higher education institutions in Iowa offering the nontraditional Intern License pathway to math, science and technology classrooms.
2.d. **Real World Externships** at $20,000 is held level to last year, as a committed cost-share to the National Science Foundation's $1.1 million grant that expires in 2014.
2.e. **Statewide STEM monitoring** at $80,000 is a decrease of $20,000 from last year, reflecting the partial support of STEM evaluation through the new NSF evaluation model award.
2.f. **Iowa Testing** at $80,000 is a decrease of $20,000 reflecting the actual cost of services by Iowa Testing. Some of last year's line item was redirected to evaluation contributions by ISU's Research Institute for Studies in Education.
2.g. **Equella** (Dept. of Ed.-owned platform for STEM repository) is no charge, should the Council decide to use it. [Funds dedicated to Equella and Webmaster last year were instead used to pay half the cost of STEM Council website redesign.]
2.h. **STEM Schools/Classrooms** at $151,309 is a new cost category, using STEM Council funds to cost-share with applicants the launch of STEM classrooms across Iowa.
2.i. **Statewide IT Academy** at $500,000 is a new cost category legislated in the FY2014 STEM appropriation, to support staffing and implementation of an IT certification program in schools across the state by a selected firm from a competitive call for bids.

3.a. **Program arm staff** at $477,563 is an increase of $175,563 reflecting the shift of all salary/benefits costs to the Council (UNI President's office subsidized salaries in FY2013), and the incorporation of an in-house assistant director/development replacing a contractual entity.
3.b. **Office supplies, equipment** at $10,000 is unchanged from last year.

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* 2013-14 Scale-Ups

A World in Motion (AWIM)
Description: The AWIM program combines a comprehensive curriculum built around the Engineering Design Experience and requires students work in teams, through the problem solving process, to solve a "challenge" to design, build and test a vehicle, and then defend their design though a presentation.
Grade Level: PreK - 8

Camp in a Can Show & Tell*
Description: Camp in a Can Show & Tell (CIACS&T) is an exciting, hands-on, all inclusive nature curriculum, professional development workshop and live animal presentation designed for after school and out-of-school time programs.
Grade Level: PreK - 6

Carolina STEM Curriculum*
Description: The Carolina STEM Curriculum provides students with a curricula to fully address science and Common Core standards and to develop a STEM foundation by providing opportunities for engaging with natural phenomena, technology, engineering design challenges and mathematics. Students develop 21st-century, age-appropriate
scientific habits while building on prior knowledge and experiences, allowing them to apply problem-solving strategies to real-world problems.
Grade Level: PreK - 8

CASE – The "CASE" for Agricultural STEM Education in Iowa: Preparing Tomorrow's Leaders, Today
Description: CASE (Curriculum for Agriscience Education) hopes to increase STEM awareness and rigor and relevance of agriculture, food and natural resource subject matter through teacher professional development, student exposure to technology and a curriculum infused with 21st century skills, critical thinking and practice opportunities.
Grade Level: 9 -12

Defined STEM*
Description: Defined STEM is a web-based application designed to promote rigorous and relevant connections between classroom content and real-world applications. Defined STEM re-defines STEM education by providing a context for learning and an authentic environment for students to apply content knowledge through role-based, multidisciplinary performance tasks and literacy tasks.
Grade Level: 3 -12

E=HC² Exploration = Health Careers Connection*
Description: E=HC² Exploration = Health Careers Connection is a STEM-based curricular intervention
that integrates academic and vocational opportunities designed to connect minority and low
socioeconomic middle and high school students to the health science professions through classroom and club activities, work-based learning opportunities, and health science career mentoring.
Grade Level: 8-12

Engineering is Elementary in Iowa (EiE)
Description: The Engineering is Elementary (EiE) is a research-based, standards-driven, and classroom-tested curriculum that integrates engineering and technology concepts and skills with elementary science topics.
Grade Level: 1-5

HyperStream - Technology Hub for Iowa Students
Description: HyperStream is a program that partners education and business, combines a career awareness initiative with hands-on, real-world tech projects that students choose and develop through project-based learning.
Grade Level: 6-12

Project Lead The Way: Gateway to Technology Program*
Description: Project Lead The Way (PLTW) intends to use the Gateway to Technology Program to promote critical thinking, creativity, innovation, and real-world problem solving skills in students.
Grade Level: 6 - 8